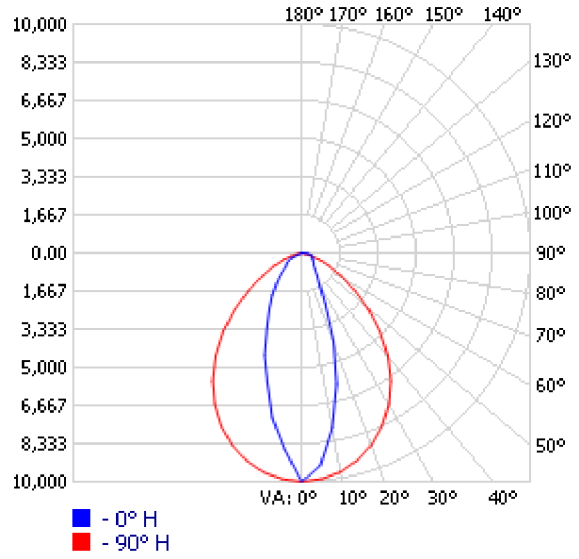
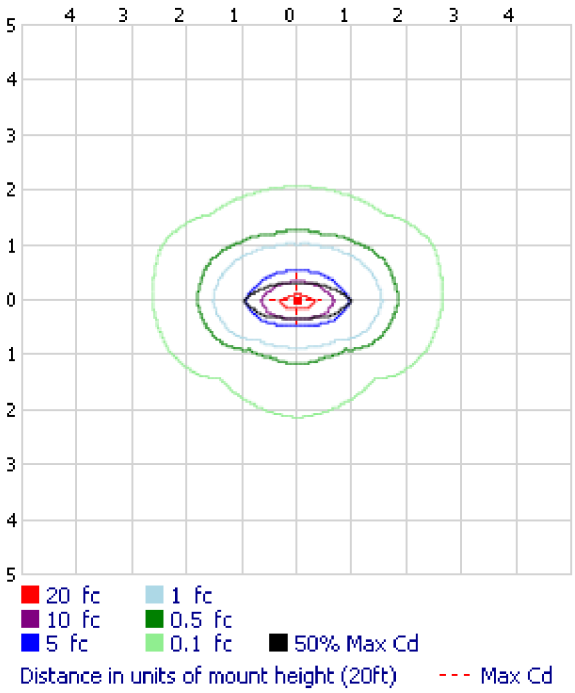
OUTDOOR PHOTOMETRIC REPORT
CATALOG: L-1-SA-850-2-U10-N

Manufacturer:	LUX Dynamics
Test #:	L092511001_modified to 5000K
Test Lab:	LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Catalog:	L-1-SA-850-2-U10-N
Description:	L series, 1 bar, SA Configuration, 2 ft length, 5000K, U10 Driver, Narrow Optic, 120VAC
Lamp Output:	Total luminaire Lumens: 11530.3, absolute photometry *
Ballast / Driver:	XI085C240V054BST1 (qty 1)
Input Wattage:	76.85
Luminous Opening:	Rectangle (L: 2.04", W: 22.2")
Nema Type:	7 X 5
Max Cd:	9,990.7 at Horizontal: 0°, Vertical: 0°

Polar Candela



Isoilluminance



*Test based on absolute photometry where lamp lumens=lumens total.
*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

Visual Photometric Tool 1.2.46 copyright 2026, Acuity Brands Lighting.
This Photometric report has been generated using methods recommended by the IESNA. Calculations are based on Photometric data provided by the manufacturer, and the accuracy of this Photometric report is dependent on the accuracy of the data provided. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual Photometric performance to differ from the performance calculated using the data provided by the manufacturer. This report is provided without warranty as to accuracy, completeness, reliability or otherwise. In no event will Acuity Brands Lighting be responsible for any loss resulting from any use of this report.

OUTDOOR PHOTOMETRIC REPORT
CATALOG: L-1-SA-850-2-U10-N

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	5,214.2	45.2%
0-40	7,320.4	63.5%
0-60	10,233.6	88.8%
60-90	1,228.3	10.7%
70-100	500.7	4.3%
90-120	61.9	0.5%
0-90	11,462.0	99.4%
90-180	68.3	0.6%
0-180	11,530.3	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	858.2	7.4%	90-100	33.5	0.3%
10-20	2,025.7	17.6%	100-110	18.5	0.2%
20-30	2,330.3	20.2%	110-120	9.9	0.1%
30-40	2,106.2	18.3%	120-130	6.4	0.1%
40-50	1,699.0	14.7%	130-140	0.000	0%
50-60	1,214.2	10.5%	140-150	0.000	0%
60-70	761.1	6.6%	150-160	0.000	0%
70-80	358.3	3.1%	160-170	0.000	0%
80-90	109.0	0.9%	170-180	0.000	0%

LCS Table

BUG Rating	**B4 - U2 - G2**	
Forward Light	Lumens	Lumens %
Low(0-30):	2,617.3	22.7%
Medium(30-60):	2,247.9	19.5%
High(60-80):	556.6	4.8%
Very High(80-90):	88.9	0.8%
Back Light		
Low(0-30):	2,608.9	22.6%
Medium(30-60):	2,776.4	24.1%
High(60-80):	563.4	4.9%
Very High(80-90):	20.1	0.2%
Uplight		
Low(90-100):	33.5	0.3%
High(100-180):	34.8	0.3%
Trapped Light:	0.000	0%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	87.9%	10,131.8	136.6	86.9
Beam (50%):	44.1%	5,083.6	88.7	36.4
Total:	99.6%	11,479.3		

Illuminance at a Distance

	Center Beam	Beam Spread(ft)		Field Spread(ft)	
Height(ft)	Footcandle	Horizontal	Vertical	Horizontal	Vertical
4.00	624.42 fc	7.8	2.6	20.1	7.6
8.00	156.10 fc	15.6	5.3	40.2	15.2
12.00	69.38 fc	23.5	7.9	60.3	22.7
16.00	39.03 fc	31.3	10.5	80.4	30.3
20.00	24.98 fc	39.1	13.2	100.5	37.9
		Beam Angle		Field Angle	
		88.7°	36.4°	136.6°	86.9°

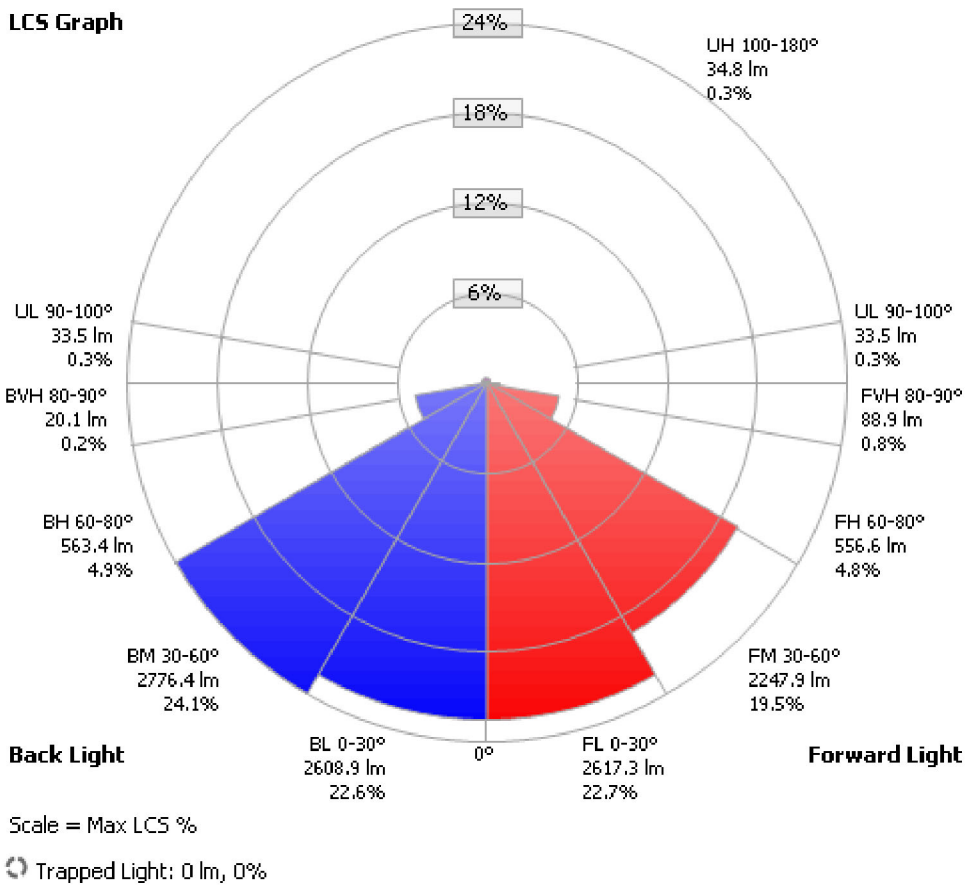
Average Luminance (Cd/m2)

	0	45	90	135	180	225	270	315	360
0	341936	341936	341936	341936	341936	341936	341936	341936	341936
45	35856	53207	235348	98569	61283	98569	235348	53207	35856
55	36182	40107	168962	74696	46536	74696	168962	40107	36182
65	42080	33355	107323	50264	38296	50264	107323	33355	42080
75	62785	36183	62155	29880	1135	29880	62155	36183	62785
85	95470	56159	28080	3370	2621	3370	28080	56159	95470

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1	1.11	1.07	1.04	1.00	1.08	1.05	1.02	.88	1.00	.98	.96	.97	.95	.93	.93	.91	.90	.88
2	1.03	.96	.91	.86	1.00	.94	.89	.78	.91	.87	.83	.88	.84	.81	.85	.82	.79	.77
3	.96	.87	.80	.75	.93	.85	.79	.70	.82	.77	.73	.80	.75	.72	.77	.74	.70	.68
4	.89	.79	.72	.66	.87	.78	.71	.63	.75	.69	.65	.73	.68	.64	.71	.67	.63	.61
5	.83	.72	.65	.59	.81	.71	.64	.57	.69	.63	.58	.67	.62	.57	.65	.61	.57	.55
6	.78	.66	.59	.53	.76	.65	.58	.51	.64	.57	.53	.62	.56	.52	.61	.56	.52	.50
7	.73	.61	.54	.48	.71	.61	.53	.47	.59	.53	.48	.58	.52	.48	.56	.51	.47	.46
8	.69	.57	.49	.44	.67	.56	.49	.43	.55	.49	.44	.54	.48	.44	.53	.47	.43	.42
9	.65	.53	.46	.41	.63	.52	.46	.40	.51	.45	.41	.50	.45	.40	.49	.44	.40	.39
10	.61	.50	.43	.38	.60	.49	.42	.37	.48	.42	.38	.47	.42	.38	.46	.41	.37	.36



Scale = Max LCS %

Trapped Light: 0 lm, 0%

UGR Table (Corrected)

Ceiling Cavity Reflectance:		70%	70%	50%	50%	30%	70%	70%	50%	50%	30%
Wall Cavity Reflectance:		50%	30%	50%	30%	30%	50%	30%	50%	30%	30%
Floor Cavity Reflectance:		20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Room Dimensions		**Viewed Crosswise**					**Viewed Endwise**				
Room Width	Room Length										
2H	2H	20.7	22.1	21.1	22.4	22.7	29.0	30.4	29.4	30.7	31.0
	3H	23.5	24.7	23.9	25.1	25.4	30.2	31.4	30.6	31.8	32.1
	4H	25.1	26.2	25.5	26.6	27.0	30.5	31.7	30.9	32.0	32.4
	6H	26.7	27.7	27.1	28.1	28.5	30.7	31.7	31.1	32.1	32.5
	8H	27.3	28.3	27.8	28.7	29.2	30.7	31.7	31.2	32.1	32.5
	12H	27.9	28.9	28.4	29.3	29.7	30.7	31.7	31.2	32.1	32.5
4H	2H	21.3	22.4	21.7	22.8	23.2	28.9	30.0	29.3	30.4	30.8
	3H	24.3	25.2	24.7	25.7	26.1	30.3	31.3	30.7	31.7	32.1
	4H	26.1	26.9	26.5	27.4	27.8	30.8	31.6	31.2	32.1	32.5
	6H	27.9	28.6	28.4	29.1	29.5	31.1	31.8	31.6	32.3	32.8
	8H	28.6	29.3	29.1	29.8	30.3	31.1	31.8	31.6	32.3	32.8
	12H	29.3	29.9	29.8	30.4	30.9	31.2	31.8	31.7	32.3	32.7
8H	4H	26.5	27.1	26.9	27.6	28.1	30.8	31.4	31.2	31.9	32.4
	6H	28.4	29.0	28.9	29.5	30.0	31.1	31.7	31.6	32.2	32.7
	8H	29.3	29.8	29.8	30.3	30.8	31.2	31.7	31.7	32.2	32.7
	12H	30.2	30.6	30.7	31.1	31.7	31.3	31.7	31.8	32.2	32.8
12H	4H	26.5	27.1	27.0	27.6	28.1	30.7	31.3	31.2	31.8	32.3
	6H	28.5	29.0	29.0	29.5	30.0	31.1	31.6	31.6	32.1	32.6
	8H	29.5	29.9	30.0	30.4	31.0	31.2	31.7	31.7	32.2	32.8

Max UGR: 32.8

OUTDOOR PHOTOMETRIC REPORT
CATALOG: L-1-SA-850-2-U10-N

Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**	**9991**
5	9327	9410	9669	9892	9911	9444	8983	8694	8588	8694	8983	9444	9911	9892	9669	9410	9327
10	7741	7943	8562	9446	9715	8747	7863	7480	7329	7480	7863	8747	9715	9446	8562	7943	7741
15	5927	6255	7301	8719	9377	7861	6873	6001	5809	6001	6873	7861	9377	8719	7301	6255	5927
20	4115	4576	5832	7885	8920	7007	5635	4991	4751	4991	5635	7007	8920	7885	5832	4576	4115
25	2426	2878	4551	6918	8338	6177	4836	3837	3584	3837	4836	6177	8338	6918	4551	2878	2426
30	1545	1816	3202	5853	7624	5270	3942	3139	2827	3139	3942	5270	7624	5853	3202	1816	1545
35	1189	1252	2208	4716	6802	4461	3195	2349	2232	2349	3195	4461	6802	4716	2208	1252	1189
40	910	999	1529	3798	5868	3843	2634	1944	1690	1944	2634	3843	5868	3798	1529	999	910
45	741	802	1099	2962	4862	3269	2036	1497	1266	1497	2036	3269	4862	2962	1099	802	741
50	688	647	867	2296	3827	2684	1666	987	883	987	1666	2684	3827	2296	867	647	688
55	606	603	672	1773	2832	2152	1252	800	780	800	1252	2152	2832	1773	672	603	606
60	551	521	521	1355	1982	1706	925	651	631	651	925	1706	1982	1355	521	521	551
65	520	465	412	982	1325	1291	621	504	473	504	621	1291	1325	982	412	465	520
70	493	427	337	658	832	889	443	276	215	276	443	889	832	658	337	427	493
75	475	398	274	409	470	550	226	19	9	19	226	550	470	409	274	398	475
80	398	329	214	235	227	269	10	8	8	8	10	269	227	235	214	329	398
85	243	208	143	110	72	21	9	7	7	7	9	21	72	110	143	208	243
90	126	110	69	37	13	11	9	7	7	7	9	11	13	37	69	110	126
95	89	74	45	26	15	13	10	7	7	7	10	13	15	26	45	74	89
100	66	54	30	20	15	13	10	7	7	7	10	13	15	20	30	54	66
105	39	33	19	18	15	13	10	7	7	7	10	13	15	18	19	33	39
110	21	14	10	14	14	13	9	7	6	7	9	13	14	14	10	14	21
115	6	8	10	13	12	11	9	6	6	6	9	11	12	13	10	8	6
120	6	9	10	12	12	11	8	6	5	6	8	11	12	12	10	9	6
125	8	9	10	12	11	12	9	6	6	6	9	12	11	12	10	9	8
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0